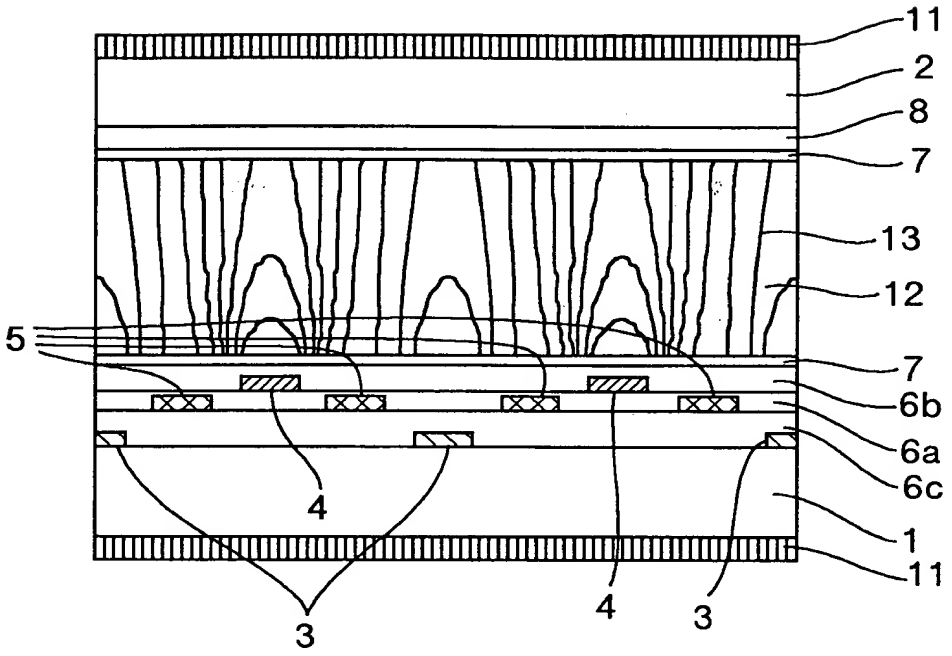
FIG.1



0050648 0050704

FIG.2

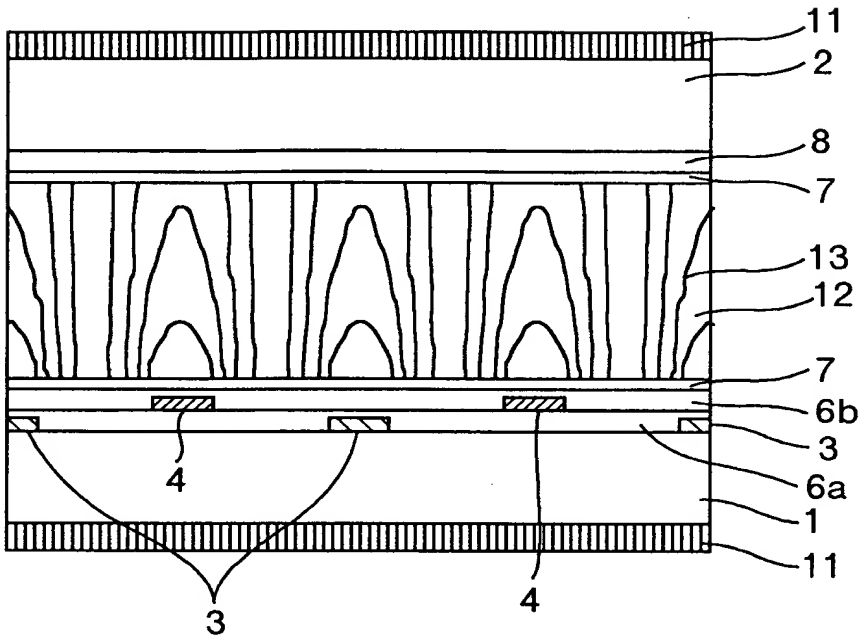


FIG.3A

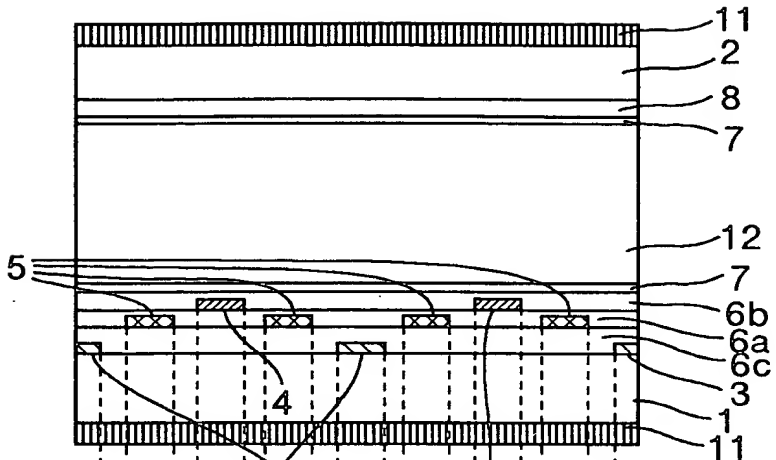


FIG.3B

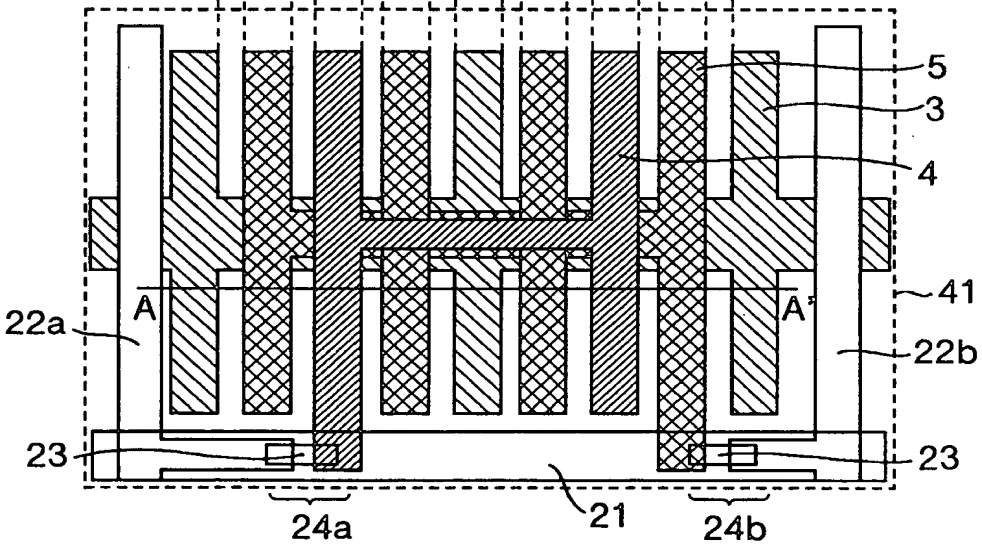


FIG.4

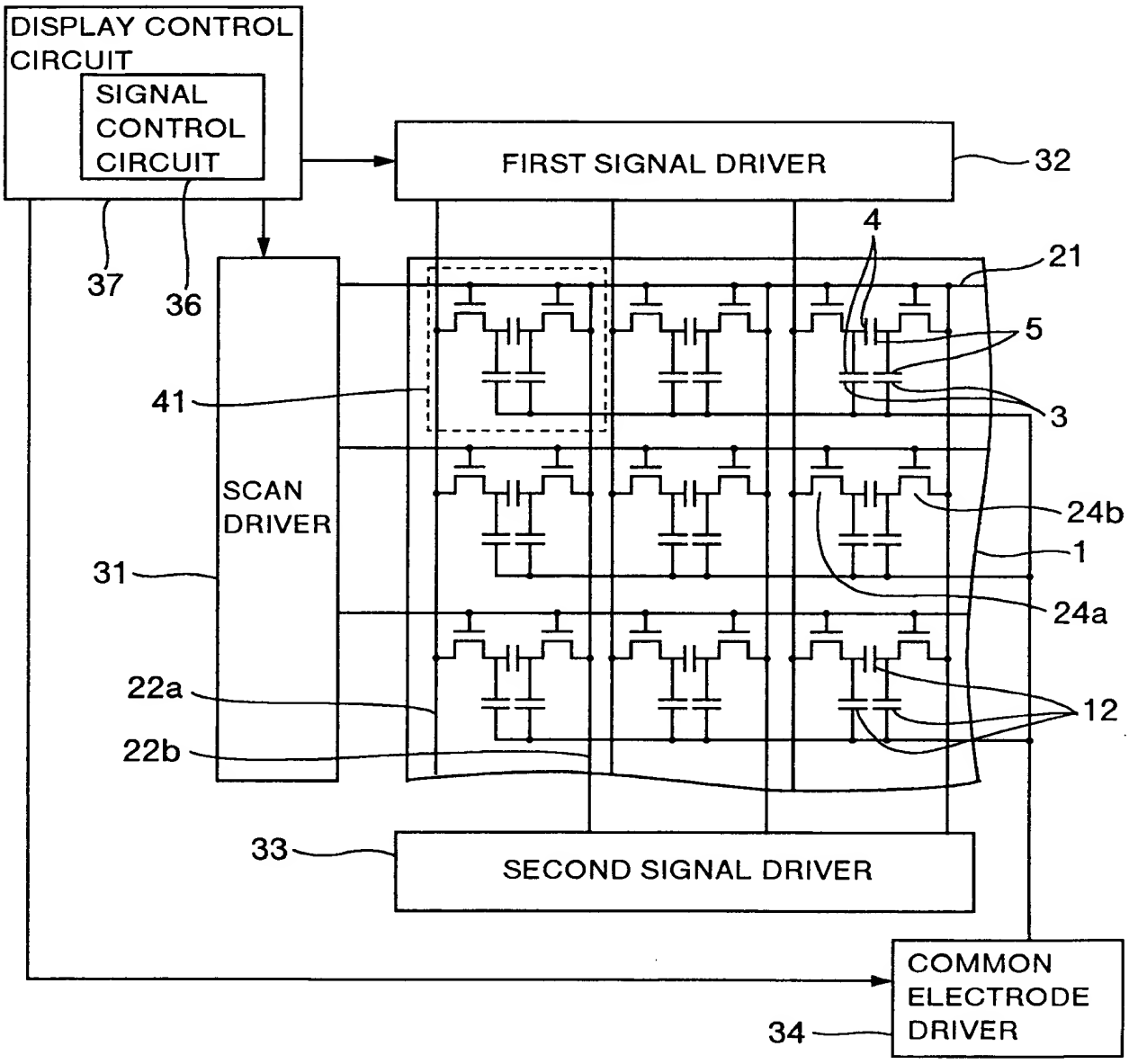

DISPLAY CONTROL CIRCUIT
SIGNAL CONTROL CIRCUIT
FIRST SIGNAL DRIVER
32
4
21
37
36
5
41
3
SCAN DRIVER
24b
1
31
24a
22a
12
22b
33
SECOND SIGNAL DRIVER
COMMON ELECTRODE DRIVER
34

FIG.5A

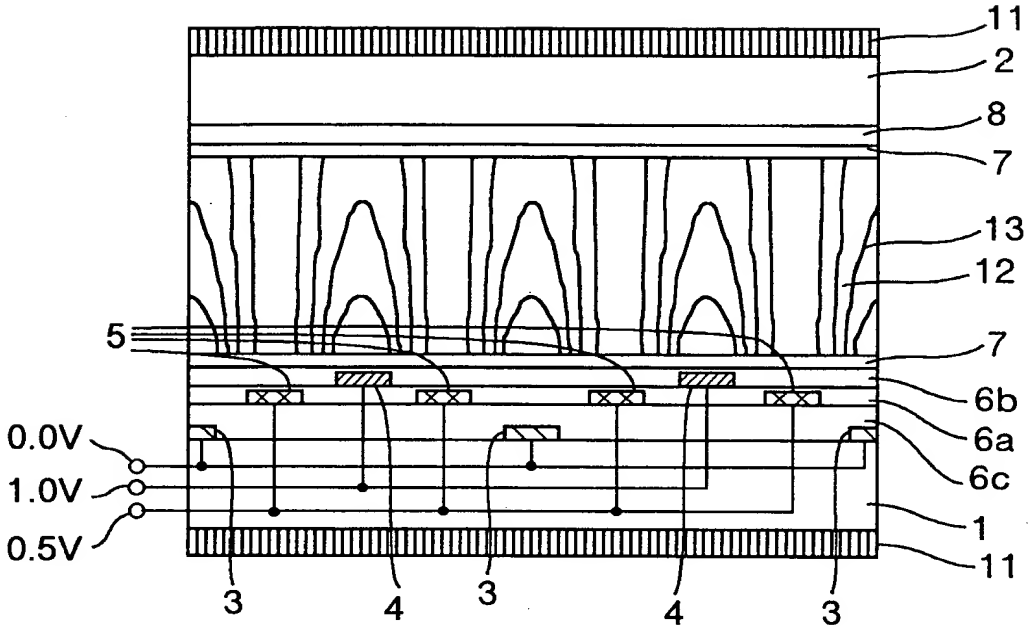

11
2
8
7
13
12
5
7
6b
6a
6c
1
11
0.0V
1.0V
0.5V
3
4
3
4
3

FIG.5B

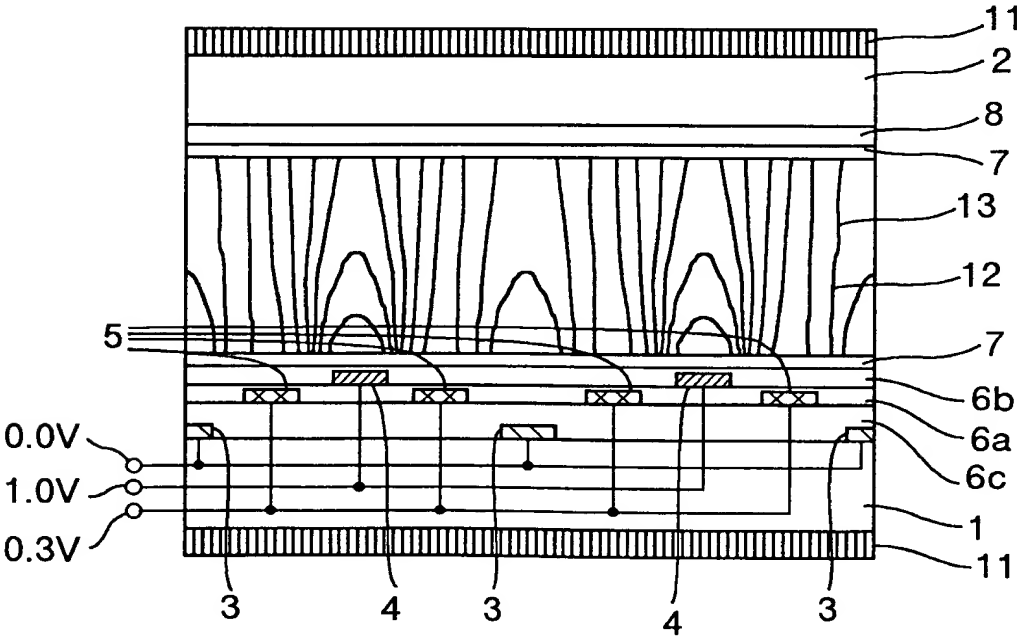

11
2
8
7
13
12
5
7
6b
6a
6c
1
11
0.0V
1.0V
0.3V
3
4
3
4
3

FIG.6

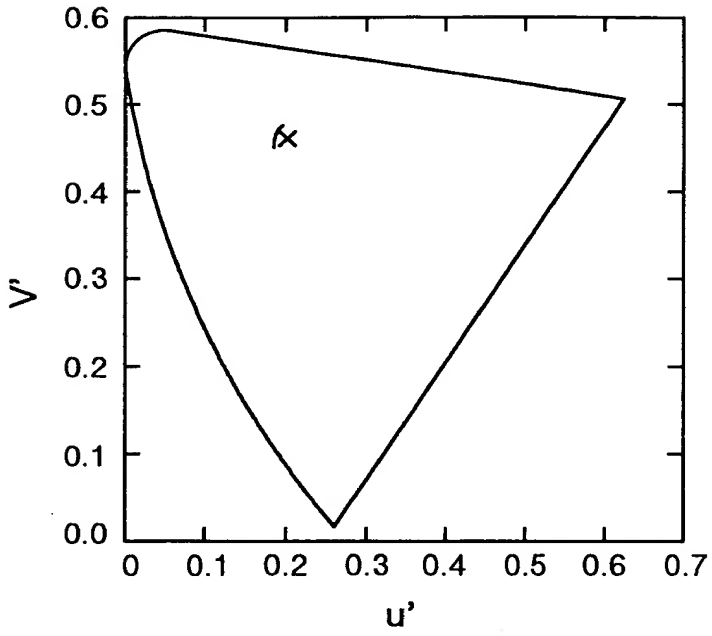


FIG.7A

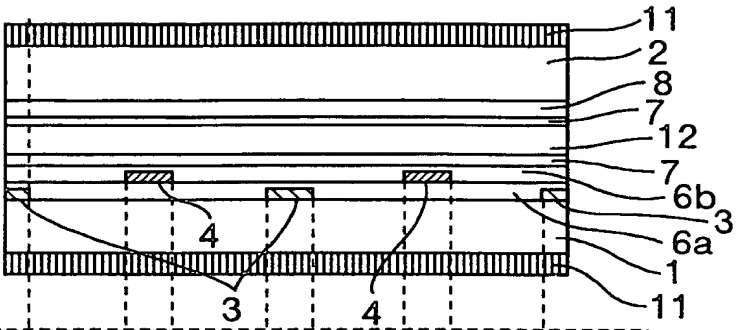


FIG.7B

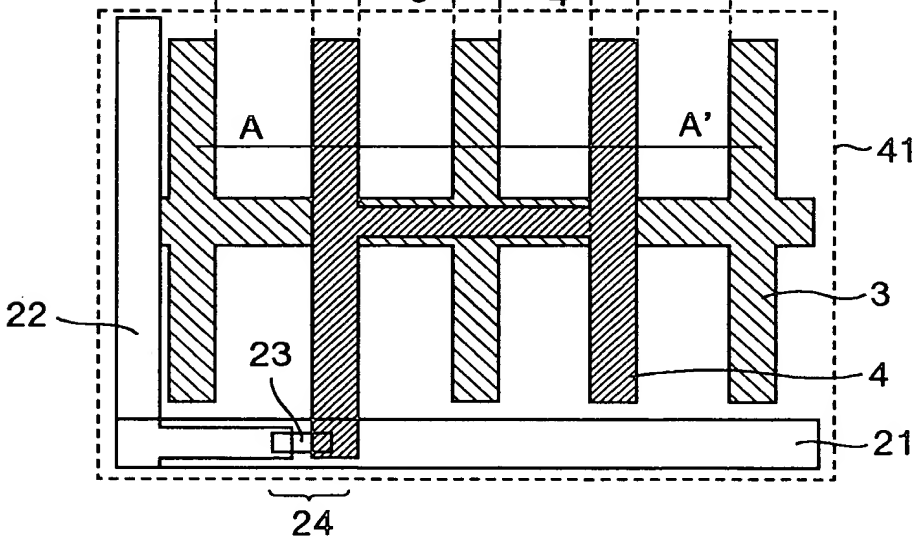


FIG.8

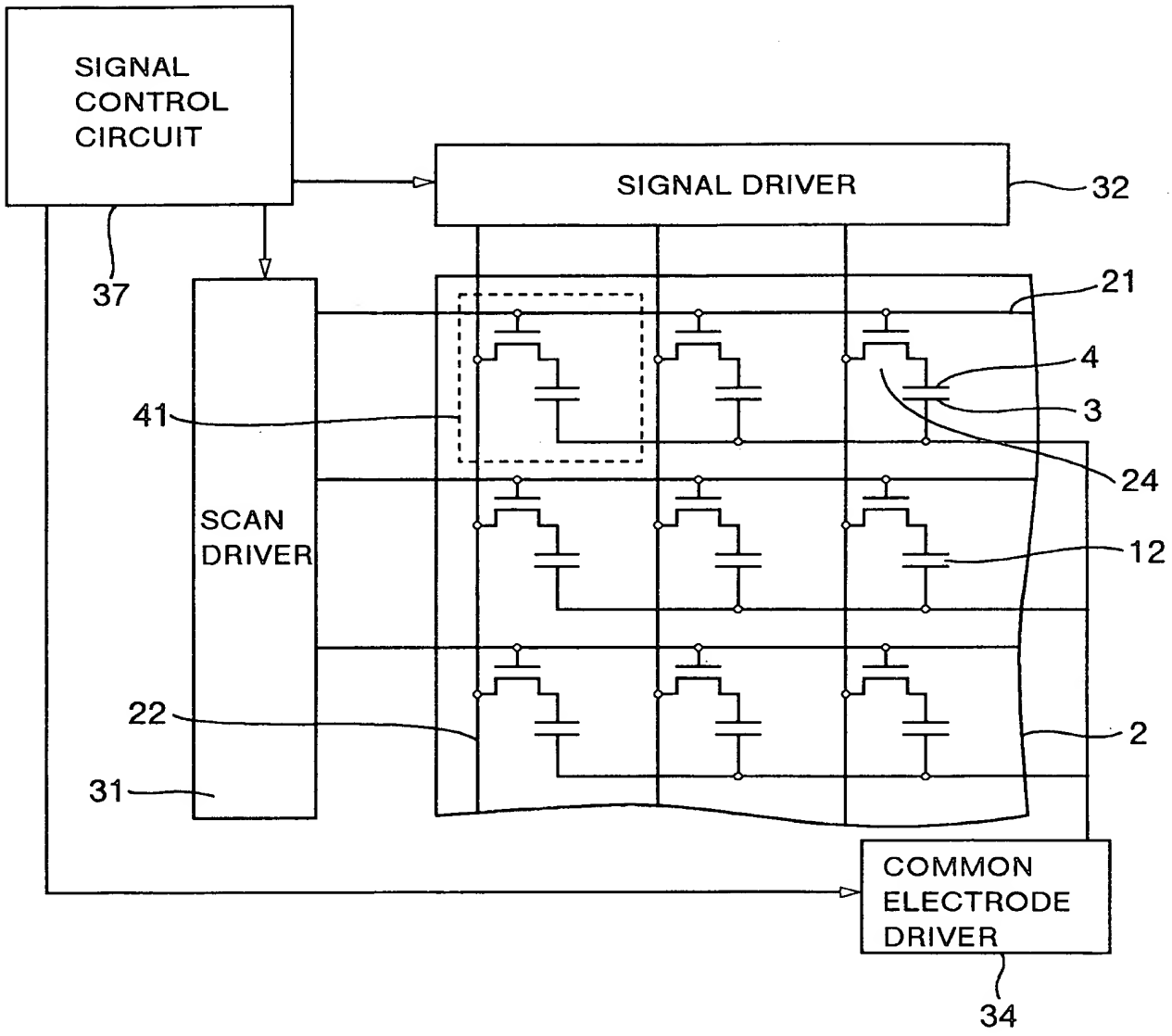

SIGNAL CONTROL CIRCUIT
SIGNAL DRIVER
32
37
21
4
3
41
24
SCAN DRIVER
12
22
2
31
COMMON ELECTRODE DRIVER
34

FIG.9

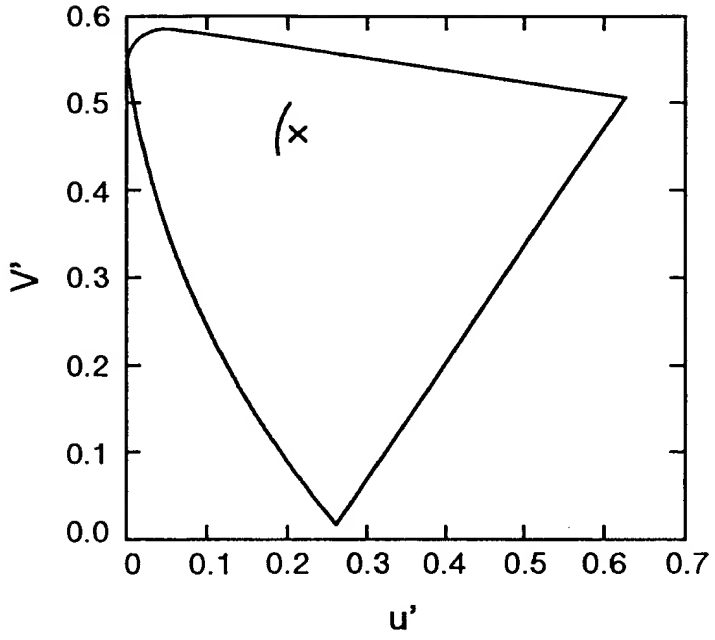


FIG.10

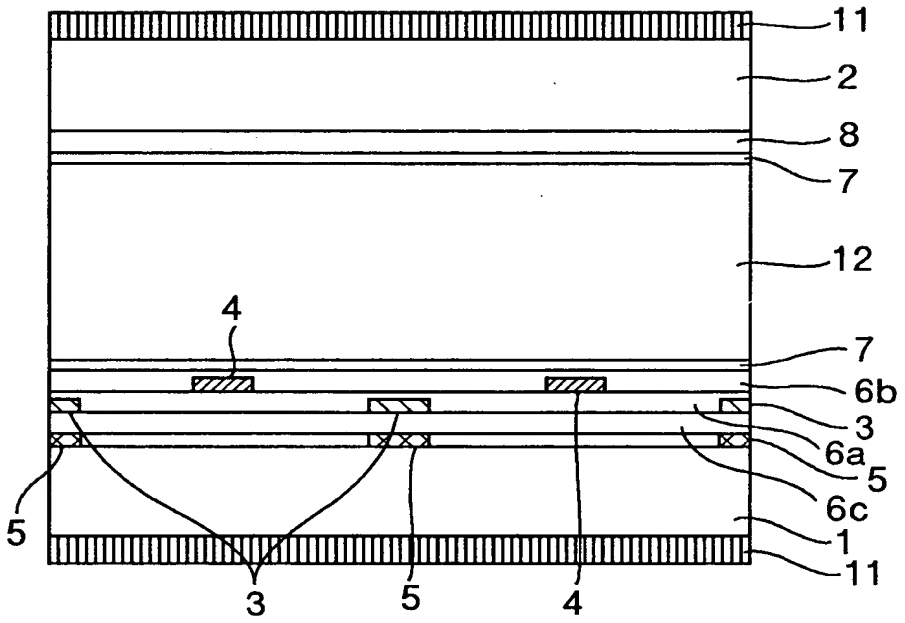


FIG.11

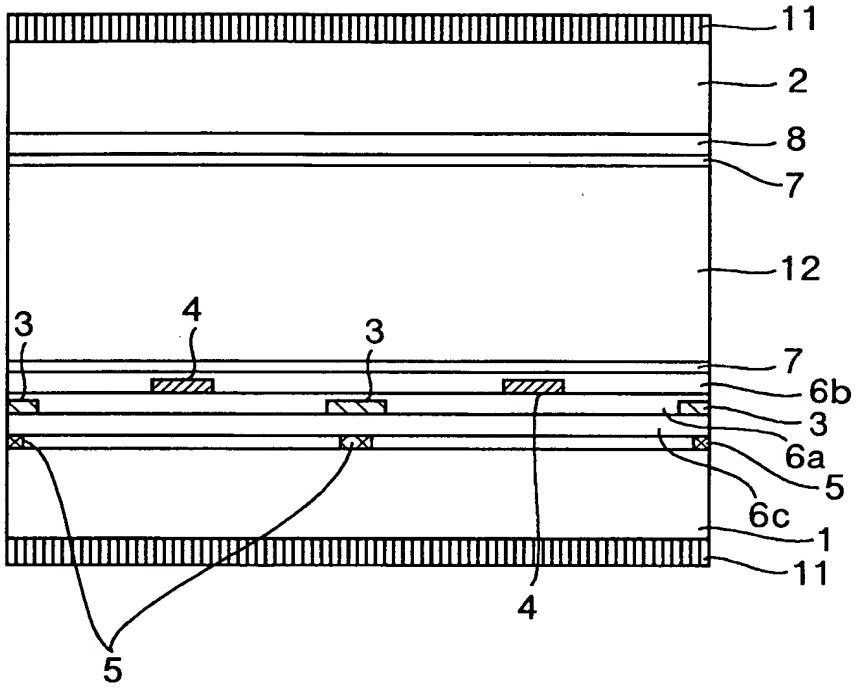


FIG.12

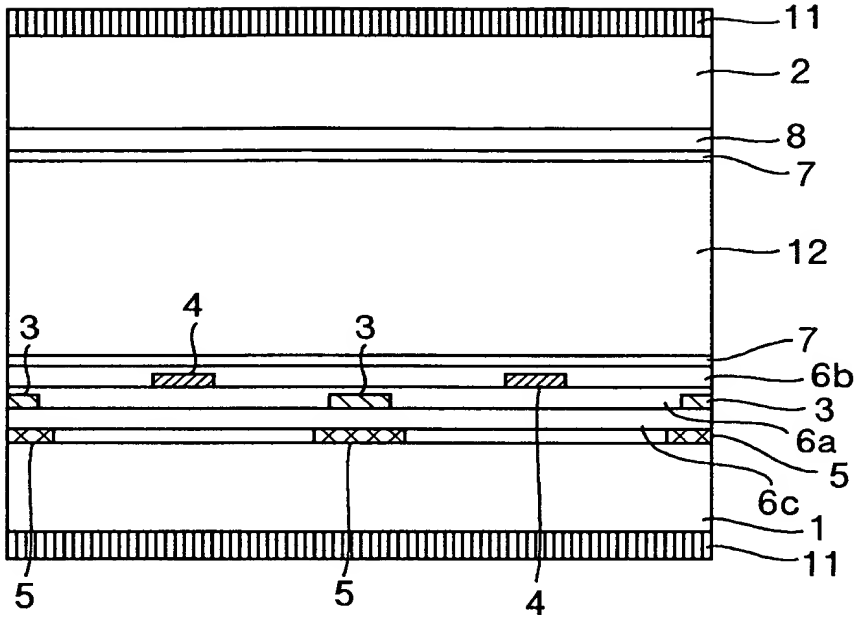


FIG.13A

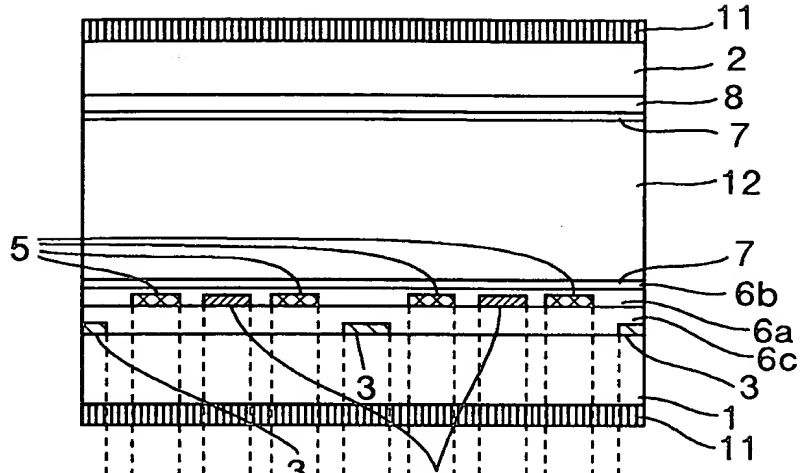


FIG.13B

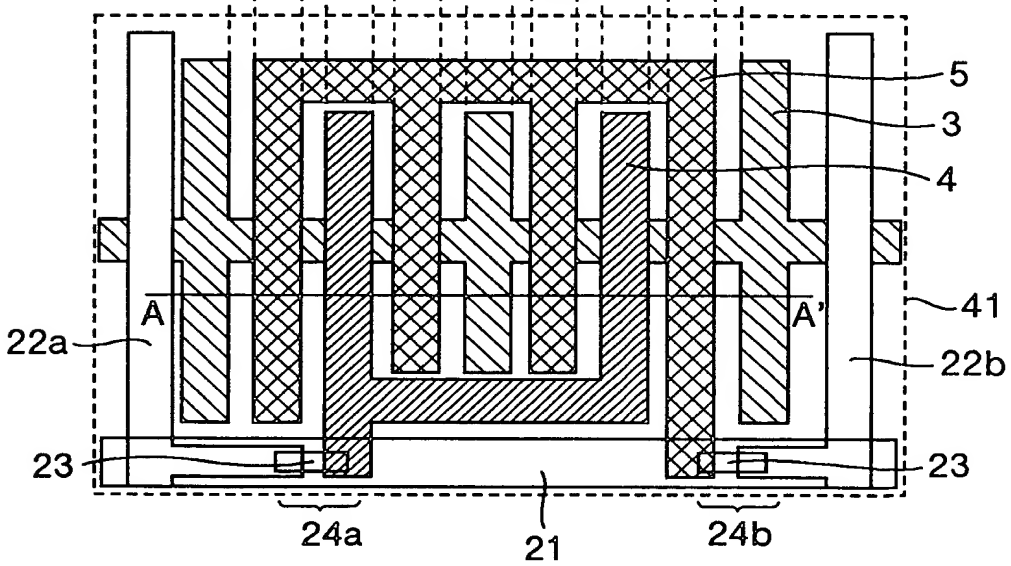


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FIG.14A

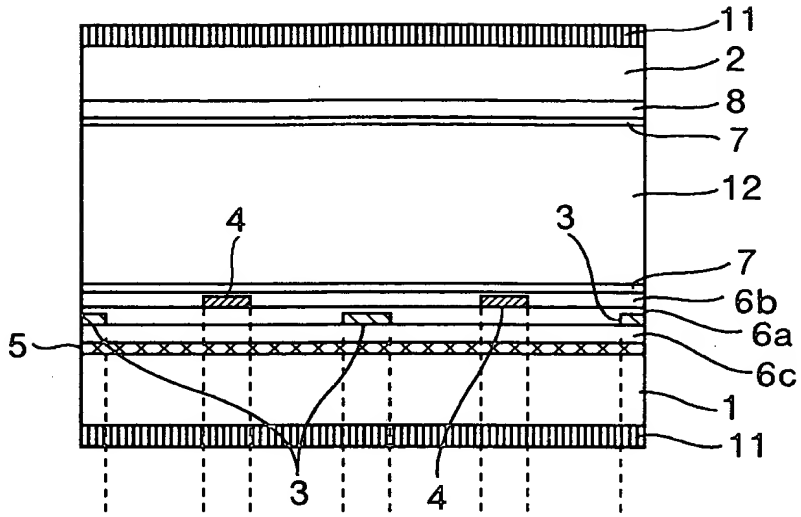

FIG.14B

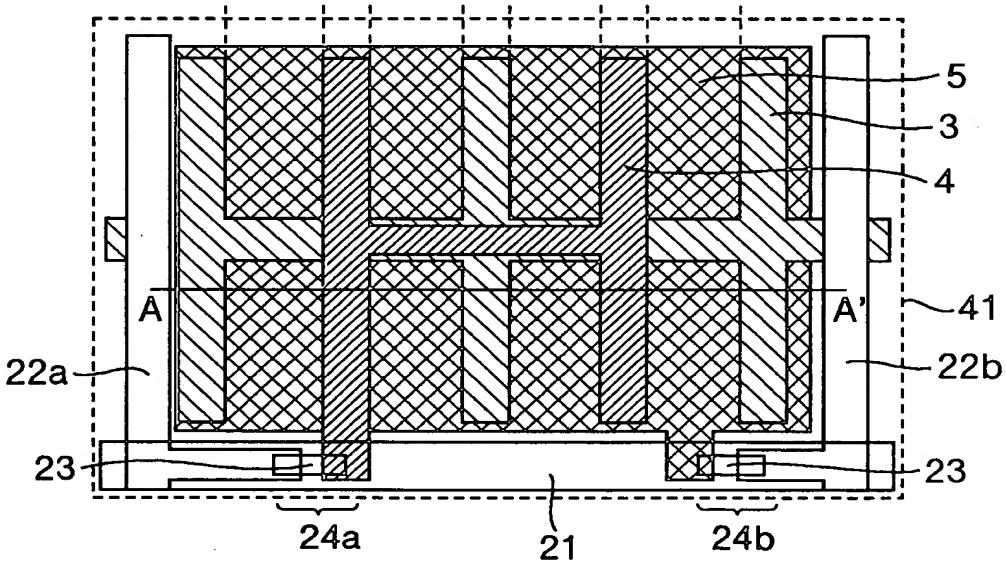

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FIG.15A

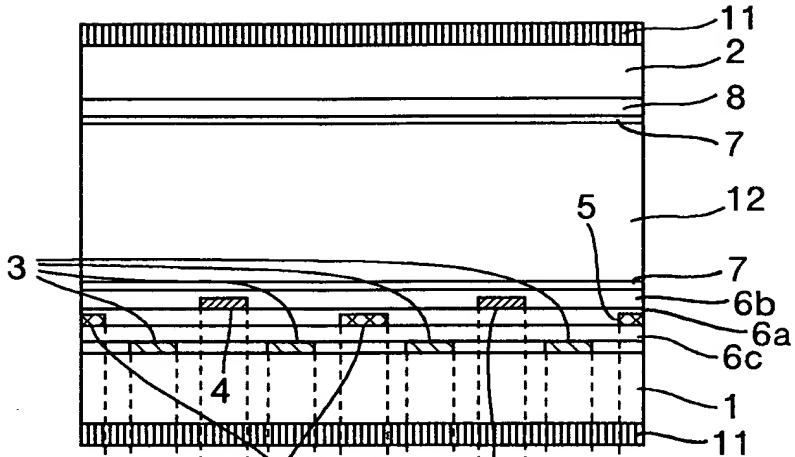

FIG.15B

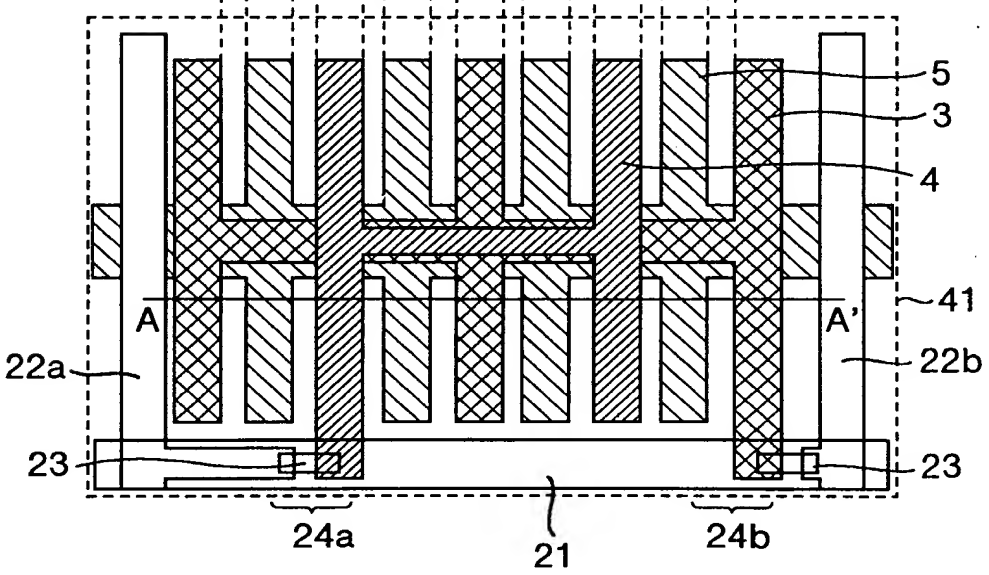

FIG.16A

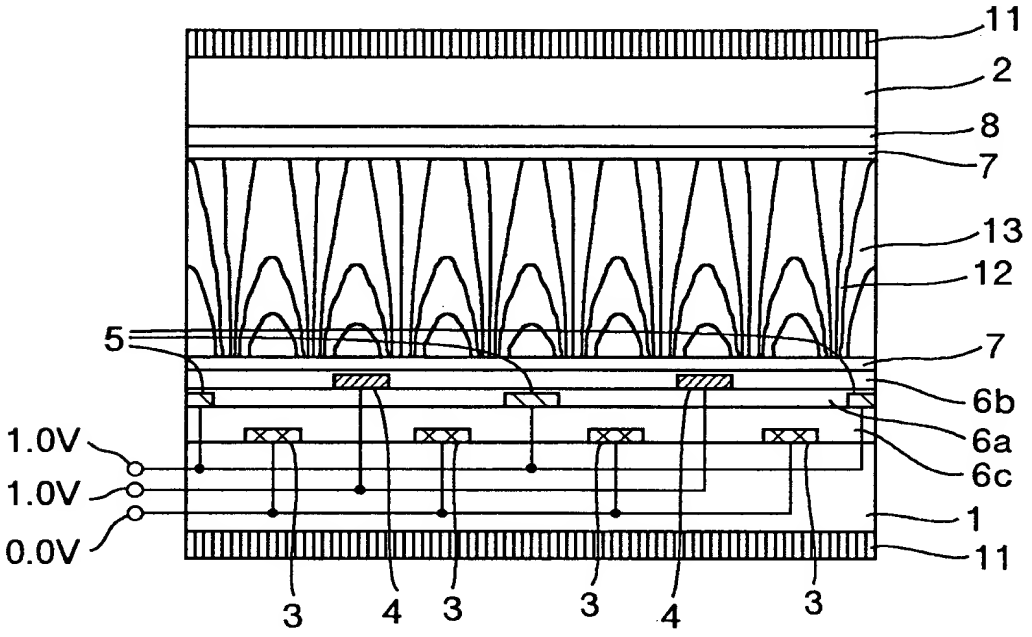

FIG.16B

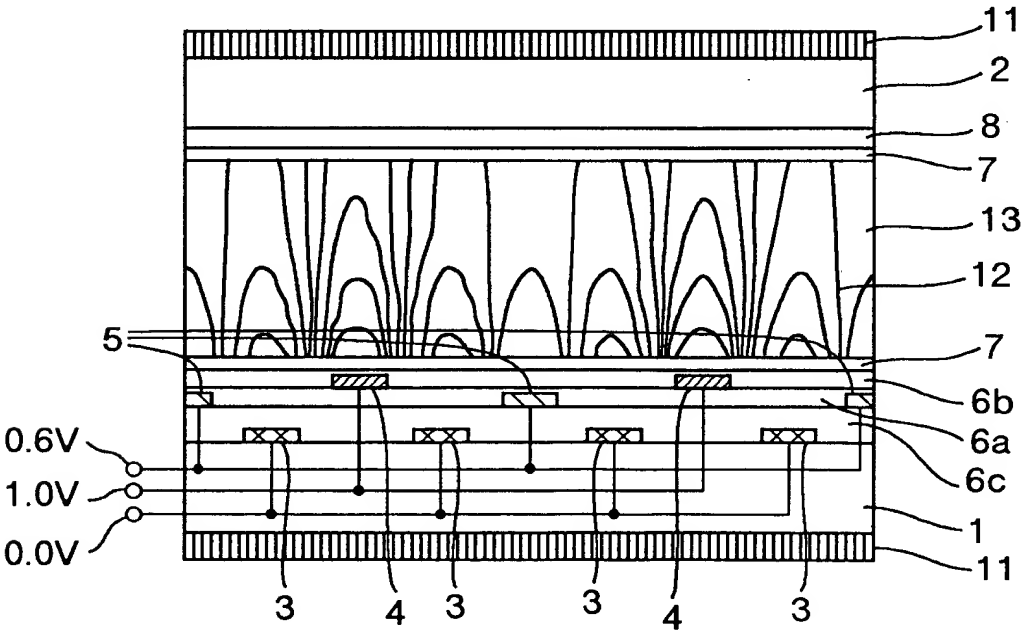

FIG.17A

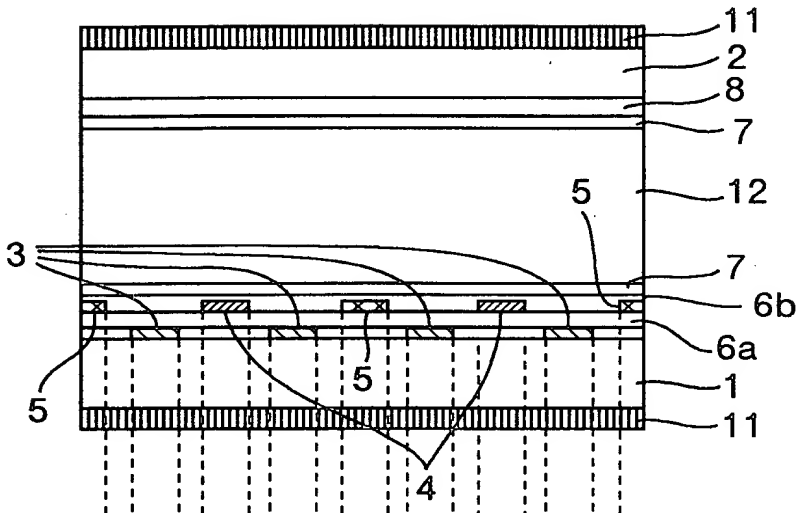

FIG.17B

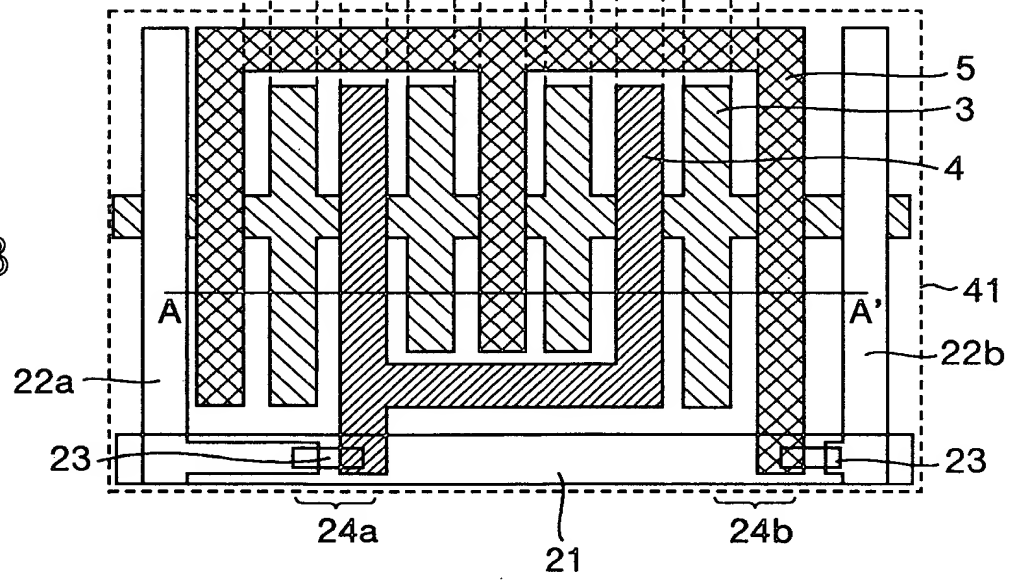

FIG.18A

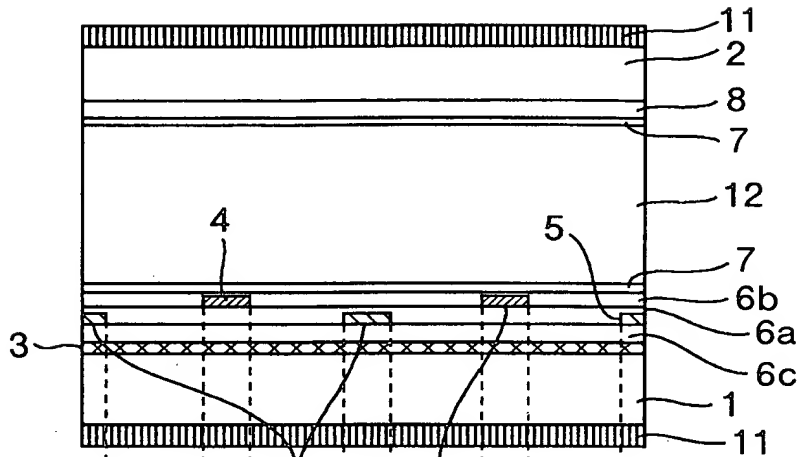

FIG.18B

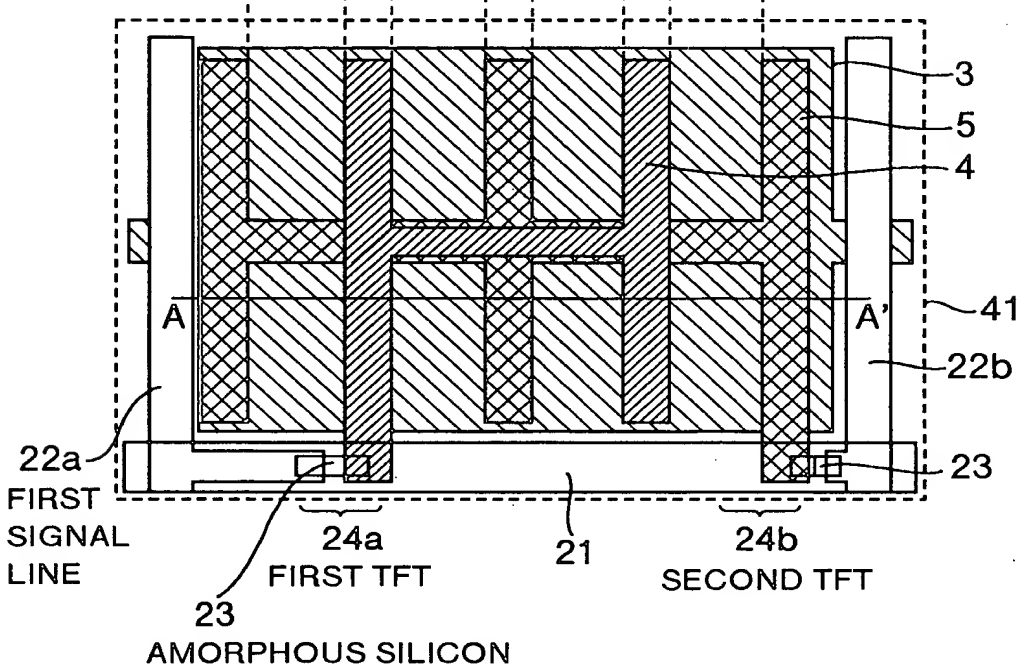

FIG.19A

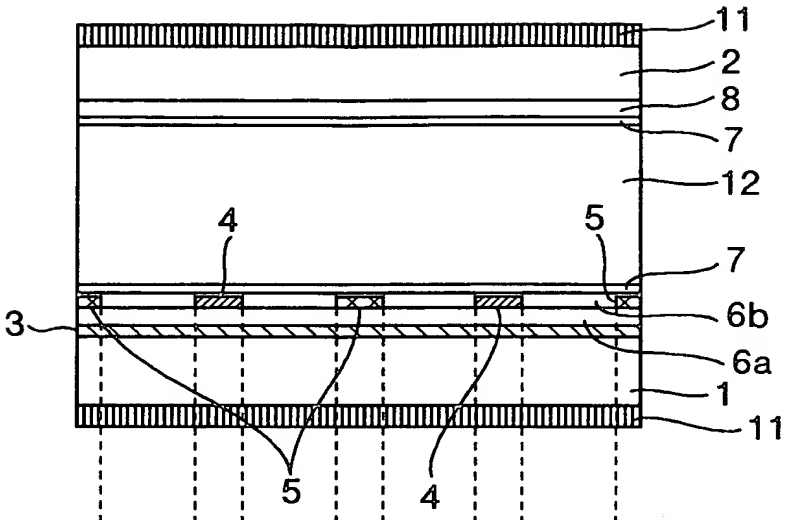

FIG.19B

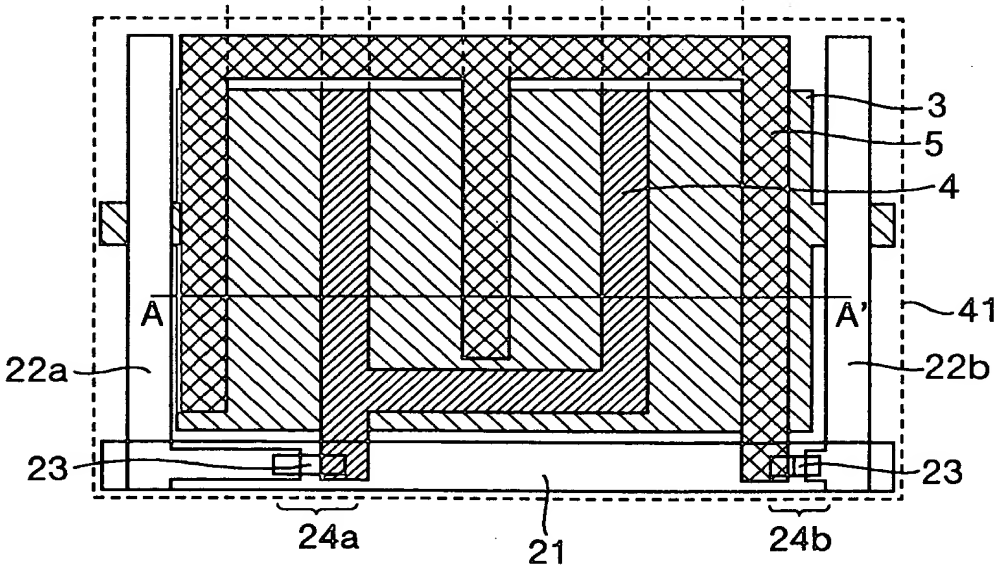

FIG.20

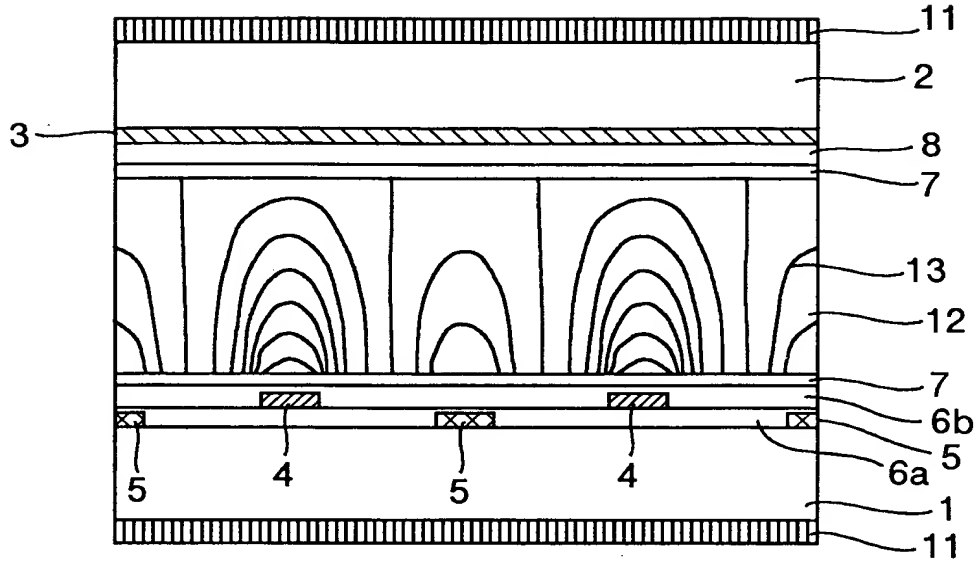

FIG.21

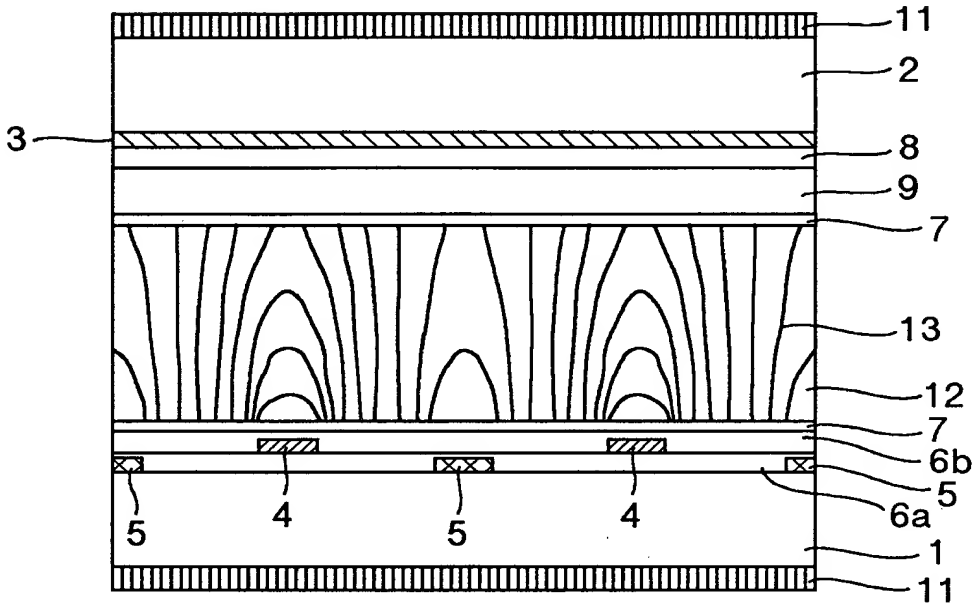
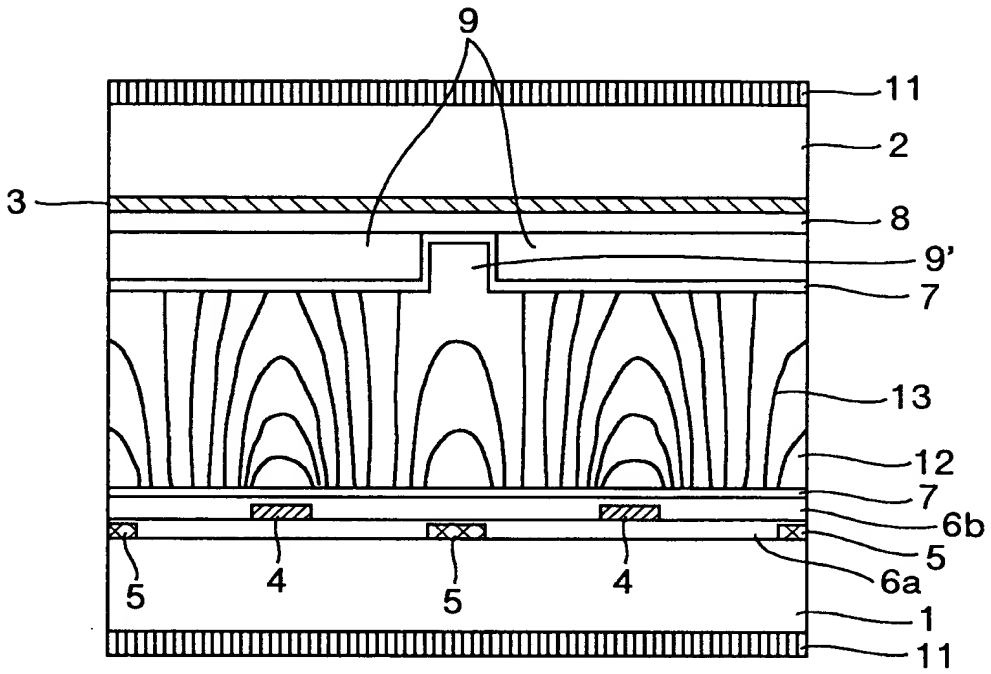
FIG.22